



56 Prospect Street
Hartford, CT 06103

Steven J. Allen
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October 6, 2022

Ms. Emily Laine
Chair, NEPOOL Reliability Committee
ISO New England, Inc.
One Sullivan Road
Holyoke, MA 01040-2841

Dear Ms. Laine,

In accordance with Schedule 12C of the ISO New England ("ISO-NE") Transmission, Markets & Services Tariff ("ISO-NE Tariff"), Eversource Energy Service Company ("Eversource") hereby submits the attached Transmission Cost Allocation ("TCA") application(s) reporting cost support information associated with the construction, retirement, or modification to facilities rated 69 kV and above that qualify as regional Pool Transmission Facilities ("PTF") for the following Eversource project:

**ES-22-TCA-34 3403 345-kV Line Laminated Wood Structure Replacements
(Plumtree substation – Norwalk substation)**

Eversource is requesting that ISO-NE submit this TCA to the NEPOOL Reliability Committee for review, in accordance with ISO-NE Planning Procedure No. 4 ("PP-4").

If you have any questions, I can be reached via the information listed above.

Sincerely,

Steven J. Allen

Steven J. Allen

cc: M. Drzewianowski

Attachment B
TCA Application Form

1. Applicant:	Application #:	ES-22-TCA-34	Date:	Oct-22
Contact Name:	Steven J. Allen			
Company Name:	Eversource Energy Service Company			
Address 1:	56 Prospect Street			
Address 2:				
City, State, Zip:	Hartford, CT 06103	RSP Project ID # or		
Contact Phone #:	860-728-4536	Asset Condition ID #	312	
Email Address:	steven.allen@eversource.com	Is Project related to CIP-14		
		Yes	<input type="checkbox"/>	No
			<input checked="" type="checkbox"/>	

2. Project Description: In Service Date: Jul-23

a. **High Level Project Details:**

Project Name (If no formal name, then Substation Upgrade, Line Upgrade, etc. are acceptable):

**3403 345-kV Line Laminated Wood Structure Replacements
(Plumtree substation - Norwalk substation)**

Project Location (State only):

State:

CT

County:

Fairfield

b. Summary of PTF-related work for Project:

This project will replace 26 laminated wood structures with steel structures on the 3403 345-kV Line (Plumtree substation - Norwalk substation) as the result of foot and aerial patrols and potential integrity issues found during recent laminated wood structure replacement projects. These structures have deficiencies such as: woodpecker damage, insect damage, rot, cracks and deteriorated steel mechanical connections.

Final project cost details will be known following closeout of all project work orders.

c. Summary of Non-PTF-related work for Project:

3. Was a transmission Proposed Plan Application required for this work?	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>	PPA Number: n/a
4. Has a transmission Proposed Plan Application been approved?	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>	Approval Date: n/a
If yes, attach a copy and reference Proposed Plan Application # and approval date.		(Please check only one)			

Need For Project:

5. Need Based On (Check all Categories that apply):

- a. Reliability
- b. Economic
- c. Service to new load
- d. New generator interconnection

Generator Proposed Plan Application Number

Generator Proposed Plan Application Date

(Attach copy of cover letter & Generator Proposed Plan Application)

- e. Public Policy Transmission Upgrade (PPTU)
- f. Market Efficiency Transmission Upgrade (METU)
- g. Asset Condition
- h. Other (specify in line 6)

6. Provide a narrative description of the need for this Project.
(Include available documentation relative to the need for this Project.)

Replacing these structures remediates the potential for structure failure due to asset condition vulnerabilities. To ensure the continued operability of this line segment, the identified structure need to be replaced.

16. Describe the major transmission alternatives, and their costs consistent with the breakdown provided in item 7 of this Application, that were considered. Provided an explanation why the preferred alternative was selected.
(Include available documentation relative to the major transmission alternatives analysis and selection.)

Alternative:

- Do nothing but for the reasons stated in 6 above is not acceptable.
- Replace/Repair only deteriorated components on structures. This alternative does not comprehensively mitigate aged structures/components does not fall into Eversource's "best-practice", and is not an economical alternative.

Preferred: Field inspections and evidence from previous asset condition projects have indicated a significant amount of degradation and decreased load carrying capacity of laminated wood 345-kV structures (many of the poles show signs of decay, woodpecker and insect damage, rot and deterioration). Replacing the structures resolves multiple structural/hardware issues and supports safe and reliable operation of the transmission line.

17. Has state and local siting been completed? If yes, explain the siting process and any provisions that were made during siting, provide docket or siting reference numbers. If no, then explain when siting is expected to be completed and any provisions that have been agreed to.

No unusual Siting or permitting was required for this project.

* Pool-Supported PTF costs were determined pursuant to Schedule 11 of Section II of the Tariff.

PROJECT COST ESTIMATE & SCHEDULE SHEET

Transmission Owner: The Connecticut Light and Power Company

RSP Project #: 312

Project Name: 3403 345-kV Line Laminated Wood Structure Replacements (Plumtree substation - Norwalk substation)

Date: Oct-22

1. Project Scope Summary

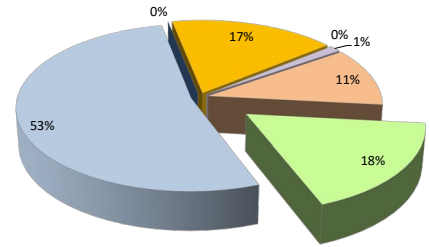
This project will replace 26 laminated wood structures with steel structures on the 3403 345-kV Line (Plumtree substation - Norwalk substation) as the result of foot and aerial patrols and potential integrity issues found during recent laminated wood structure replacement projects. These structures have deficiencies such as: woodpecker damage, insect damage, rot, cracks and deteriorated steel mechanical connections.

2. Project Cost Summary

(\$M)

2.1. Project Cost Summary			
Cost Category	PTF	Non-PTF	Total
Material	\$ 2.127	\$ -	\$ 2.127
Labor & Equipment	\$ 6.365	\$ -	\$ 6.365
Right of Way	\$ -	\$ -	\$ -
Engineering/Permitting /Indirects	\$ 2.082	\$ -	\$ 2.082
Escalation	\$ -	\$ -	\$ -
AFUDC	\$ 0.143	\$ -	\$ 0.143
Contingency	\$ 1.374	\$ -	\$ 1.374
Total Project Cost	\$ 12.091	\$ -	\$ 12.091

- Material
- Labor & Equipment
- Right of Way
- Engineering/Permitting /Indirects
- Escalation
- AFUDC
- Contingency



2.2 Detailed Cost Summary By Project Element

	Material	Labor & Equipment	Right of Way	Engineering/ Permitting/ Indirects	Escalation	AFUDC	Contingency	Total	PTF Amount
3403 345-kV Line Laminated wood structure replacements (Plumtree substation - Norwalk substation)	\$ 2.127	\$ 6.365	\$ -	\$ 2.082	\$ -	\$ 0.143	\$ 1.374	\$ 12.091	\$ 12.091
Total	\$ 2.127	\$ 6.365	\$ -	\$ 2.082	\$ -	\$ 0.143	\$ 1.374	\$ 12.091	\$ 12.091

3. Project Milestone Schedule

Description	Start	Completion	2021		2022		2023		2024		2025			
			Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4	Qtr1	Qtr2	Qtr3	Qtr4
			Siting & Permitting											
Approval and Permits	4/30/2021	2/6/2023	—————→											
			Engineering											
Engineering and Design	2/2/2021	7/29/2022	—————→											
			Material											
Material	6/15/2021	5/27/2022	—————→											
			Construction											
Construction	10/17/2022	7/31/2023	—————→											
			Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4											
			2021 2022 2023 2024 2025											

3403 345-kV Line Laminated Wood Structure Replacements Project
 Correlation Table
 (Plumtree substation - Norwalk substation)

<u>TCA Item</u>	<u>RSP:</u> Project ID #	<u>Study:</u> Reliability Issues Requiring Action	<u>PPA Application:</u>		<u>PAC/RC Meeting:</u> Presentation Reference	<u>TCA Application (\$Ms):</u>	
			<u>PPA No.</u>	<u>Preferred Solution Description</u>		<u>PTF Estimate</u>	<u>Non-PTF Estimate</u>
ES-22-TCA-34	312	n/a	n/a	Replace 26 345-kV laminated wood structures with light-duty steel structures, including hardware, insulators, and guys.	Per PAC Presentation 10/20/2021	\$ 12.091	
				SUBTOTAL		\$ 12.091	\$ -